

CONTACT INFORMATION	Box 1910 Brown University 115 Waterman Street Providence, RI 02912, USA	Voice: +1-401-654-3216 E-mail: <a href="mailto:matteo@cs.brown.edu">matteo@cs.brown.edu</a> WWW: <a href="http://www.cs.brown.edu/~matteo">http://www.cs.brown.edu/~matteo</a>
CAREER GOAL	Becoming a successful scholar at a leading research institution or lab.	
RESEARCH INTERESTS	Data mining, graph mining, randomized algorithms, social network dynamics, privacy issues in data mining, statistical learning theory, distributed/parallel architectures for big data.	
EDUCATION	<b>Brown University</b> , Providence, Rhode Island, USA Ph.D. Candidate, Computer Science, <i>in progress since Sept. 2009. Expected completion: May 2014</i> <ul style="list-style-type: none"><li>• Dissertation Topic: <i>Randomized algorithms for data mining</i></li><li>• Advisor: Prof. Eli Upfal</li></ul> M.S., Computer Science, May 2010 <b>Università di Padova</b> , Padua, Italy Laurea Magistrale (M.S.) <i>cum laude</i> , Computer Engineering, July 2009 <ul style="list-style-type: none"><li>• Master Thesis Topic: Top-K Frequent Itemsets Mining through Sampling</li></ul> Laurea (B.S.), Information Engineering, July 2007	
PUBLICATIONS	<p>M. Riondato and F. Vandin. Controlling false positives in frequent itemsets mining through the VC-dimension. <i>CoRR</i>, abs/1301.1218, available from <a href="http://arxiv.org/abs/1301.1218">http://arxiv.org/abs/1301.1218</a>, 2013.</p> <p>M. Riondato, J. A. DeBrabant, R. Fonseca, and E. Upfal. PARMA: A parallel randomized algorithm for association rules mining in MapReduce. In X.-w. Chen, G. Lebanon, H. Wang, and M. J. Zaki, editors, <i>Proceedings of the 21st ACM International Conference on Information and Knowledge Management, CIKM 2012, October 29 – November 02, 2012, Maui, HI, USA</i>, pages 85–94. ACM, 2012.</p> <p>M. Riondato and E. Upfal. Efficient discovery of association rules and frequent itemsets through sampling with tight performance guarantees. In P. A. Flach, T. De Bie, and N. Cristianini, editors, <i>Machine Learning and Knowledge Discovery in Databases</i>, volume 7523 of <i>Lecture Notes in Computer Science</i>, pages 25–41, 2012. Full version: <i>CoRR</i>, abs/1111.6937, available from <a href="http://arxiv.org/abs/1111.6937">http://arxiv.org/abs/1111.6937</a>, 2012.</p> <p>A. Pietracaprina, G. Pucci, M. Riondato, F. Silvestri, and E. Upfal. Space-round tradeoffs for MapReduce computations. In U. Banerjee, K. A. Gallivan, G. Bilardi, and M. Katevenis, editors, <i>International Conference on Supercomputing, ICS 2012, Venice, Italy, June 25–29, 2012</i>, pages 235–244. ACM, 2012.</p> <p>M. Akdere, U. Çetintemel, M. Riondato, E. Upfal, and S. B. Zdonik. Learning-based query performance modeling and prediction. In <i>Proceedings of the 28th International Conference on Data Engineering, ICDE 2012, April 1–5, 2012, Washington, DC, USA</i>, 2012.</p> <p>M. Riondato, M. Akdere, U. Çetintemel, S. B. Zdonik, and E. Upfal. The VC-dimension of SQL queries and selectivity estimation through sampling. In D. Gunopulos, T. Hofmann, D. Malerba, and M. Vazirgiannis, editors, <i>Machine Learning and Knowledge Discovery in Databases - European Conference, ECML PKDD 2011, Athens, Greece, September 5–9, 2011, Proceedings, Part II</i>, volume 6912 of <i>Lecture Notes in Computer Science</i>, pages 661–676. Springer, 2011.</p> <p>M. Akdere, U. Çetintemel, M. Riondato, E. Upfal, and S. B. Zdonik. The case for predictive database systems: Opportunities and challenges. In <i>CIDR 2011, Fifth Biennial Conference on Innovative Data Systems Research, Asilomar, CA, USA, January 9–12, 2011, Online Proceedings</i>, pages 167–174. <a href="http://www.cidrdb.org">www.cidrdb.org</a>, 2011.</p> <p>A. Pietracaprina, M. Riondato, E. Upfal, and F. Vandin. Mining top-<math>K</math> frequent itemsets through progressive sampling. <i>Data Mining and Knowledge Discovery</i>, 21(2):310–326, 2010.</p> <p>M. Riondato. Jails, Chapter 16. In <i>The FreeBSD Handbook</i>, <a href="http://www.freebsd.org/handbook">http://www.freebsd.org/handbook</a>.</p>	

INVITED TALKS	M. Riondato. Approximate aggregate database queries through sampling. <i>Invited Lecture for CSCI-2950-T, Brown University</i> , October 2011.
	M. Riondato. Graphs algorithms in MapReduce: design choices and optimizations. <i>Invited Lecture for CSCI-2950-U, Brown University</i> , September 2011.
	M. Riondato. Statistical Learning Theory meets Databases. <i>Advanced Computing Group Talk, Department of Information Engineering, University of Padua, Italy</i> , June 2011.
OTHER	<b>Sapienza Università di Roma</b> , Rome, Italy
ACADEMIC	<i>Visiting Ph.D. Student</i> <span style="float: right;"><b>June – July 2012</b></span>
EXPERIENCE	<ul style="list-style-type: none"> <li>Worked with Prof. S. Leonardi, A. Anagnostopoulos, and L. Becchetti on algorithms for a model of crowdsourcing computation, and on algorithms for MapReduce.</li> </ul>
	<b>Università di Padova</b> , Padua, Italy
	<i>Research Fellow</i> <span style="float: right;"><b>May – July 2011</b></span>
	<ul style="list-style-type: none"> <li>Worked with Prof. A. Pietracaprina, G. Pucci, and F. Silvestri on “The Map-Reduce Paradigm: computational model and algorithms”. Funded by MIUR of Italy under Project AlgoDEEP prot. 2008TFBWL4.</li> </ul>
	<b>Chalmers University of Technology</b> , Gothenburg, Sweden
	<i>Visiting Ph.D. Student</i> <span style="float: right;"><b>August 2010</b></span>
	<ul style="list-style-type: none"> <li>Worked with Prof. Devdatt Dubhashi and helped organizing a seminar on Probability and Computing.</li> </ul>
	<b>Brown University</b> , Providence, Rhode Island, USA
	<i>Visiting Grad Student</i> <span style="float: right;"><b>October 2008 – June 2009</b></span>
	<ul style="list-style-type: none"> <li>Worked with Prof. Eli Upfal on master thesis <i>Top-K Frequent Itemsets Mining through Sampling</i>.</li> </ul>
TEACHING	<b>Brown University</b> , Providence, Rhode Island, USA
EXPERIENCE	<ul style="list-style-type: none"> <li>Teaching Assistant, Probability and Computing, Spring 2012, Spring 2013</li> <li>Teaching Assistant, Probabilistic Methods in Computer Science, Fall 2010</li> </ul>
PROFESSIONAL	<b>External reviewer for the following conferences</b>
SERVICE	<ul style="list-style-type: none"> <li>RANDOM’11, ICS’12, IPDPS’12, WSDM’13.</li> </ul>
	<b>Brown University Graduate Student Council</b>
	<i>President</i> <span style="float: right;"><b>April 2011 – December 2012</b></span>
	<ul style="list-style-type: none"> <li>Represented the interests of the entire graduate students community (approx. 2000 students) with the university administration and the broader community at all levels. Previously held positions include Vice-President of Administration (Jan – April 2011) and representative for the Computer Science Department (Sep 2009 – April 2011).</li> </ul>
CITIZENSHIP	Italy